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ecology and environment, inc.

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

MEMORANDUM

DATE: September 25, 1985

TO: John Osborn, FIT RPO, USEPA, Region X

FROM: Roger McGinnis, Chemist, E&E, Seattle RMM
Andrew Hafferty, Senior Chemist, E&E, Seattle

THRU: David Buecker, FIT RPM, E&E, Seattle

SUBJ: Addenda to QA of Case 4768 (Inorganics)
Resource Recovery WA 0280

Pasco Sanitary L.F.

REF: TDD R10-8507-01

CC: Gerald Muth, EPA, Manchester
Bill Ritthaler, E&E, Seattle

The attached inorganic analysis sheets should be added to Quality Assurance review for Case 4768. The laboratory had omitted the results for sample MJA210 in the original data package. The analysis sheet for sample MJA233 was mislabelled as sample MJA234 and the laboratory has provided a corrected data sheet. The original memorandum (see attached copy) was sent to the EPA without laboratory corrections in order not to delay the data.

RM:dlk

USEPA SF
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ecology and environment, inc.
108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537
International Specialists in the Environmental Sciences

MEMORANDUM

DATE: September 13, 1985

TO: John Osborn, FIT RPO, USEPA, Region X

FROM: Roger McGinnis, Chemist, E&E, Seattle RNM
Andrew Hafferty, Senior Chemist, E&E, Seattle

THRU: David Buecker, FIT RPM, E&E, Seattle

SUBJ: QA of Case 4768 (Inorganics)
Resource Recovery WA 0280

REF: TDD R10-8507-01

CC: Gerald Muth, EPA, Manchester
Harold Takenaka, DPO, EPA, Region IX
Bill Ritthaler, E&E, Seattle

The Quality Assurance review of 26 samples, Case 4768, collected at Resource Recovery has been completed. The eight water samples and 18 soil samples were analyzed at low level for inorganics by California Analytical Laboratories, Inc. of West Sacramento, California. The samples were numbered:

MJA222	MJA216	MJA231
MJA223	MJA217	MJA232
MJA221	MJA218	MJA233 Numbered 234 in original
MJA227	MJA219	MJA212
MJA237	MJA224	MJA213
MJA210 omitted in original	MJA225	MJA236
MJA211	MJA228	MJA248
MJA214	MJA229	MJA249
MJA215	MJA230	

Data Qualifications

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in IFB WA84A-266.

1) Timeliness - Acceptable

2) Initial Calibration - Acceptable

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MJA210
DATE:9/19/85

INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB.
SOW NO.: 784
LAB.SAMPLE NO.: P2769

CASE NO:4768
QC RPT.#4768

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD	MG/KG DRY WEIGHT
1. ALUMINIUM...P	7315
2. ANTIMONY....P	6U J
3. ARSENIC.....F	5.7
4. BARIUM.....P	110
5. BERYLLIUM...P	0.5
6. CADMIUM.....P	1.0U
7. CALCIUM.....P	12938
8. CHROMIUM....P	11
9. COBALT.....P	13
10.COPPER.....P	12
11.IRON.....P	22753
12.LEAD.....F	5.7
13.MAGNESIUM...P	6962
14.MANGANESE...P	439
15.MERCURY....CV	0.1U
16.NICKEL.....P	8U
17.POTASSIUM...P	2551
18.SELENIUM....F	1.8U J
19.SILVER.....P	2.5
20.SODIUM.....P	539
21.THALLIUM....F	2U
22.TIN.....P	9U
23.VANADIUM....P	43.1
24.ZINC.....P	54
25.CYANIDE.....C	N/R
% SOLID	94.8

COMMENTS:

LAB MANAGER:

Rnm
9/24/85

U.S. EPA CONTRACT LABORATORY PROGRAM
SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313
703/557-2490 FTS:8-557-2490

EPA SAMPLE NO:
MJA~~234~~ 233 SB
DATE:8/29/85 9/19/85

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INORGANIC ANALYSIS SHEET

LAB NAME: CALIF.ANAL.LAB. CASE NO:4768
SOW NO.: 784 QC RPT.#4768
LAB.SAMPLE NO.: P2784

ELEMENTS IDENTIFIED AND MEASURED

CONC.: LOW: XX MEDIUM:
MATRIX: SOIL: XX

ELEMENTS..METHOD	MG/KG DRY WEIGHT
1. ALUMINIUM...P	4671
2. ANTIMONY....P	6U J
3. ARSENIC.....F	3.2U
4. BARIUM.....P	79
5. BERYLLIUM...P	0.4
6. CADMIUM.....P	1.0U
7. CALCIUM.....P	7616
8. CHROMIUM....P	6
9. COBALT.....P	11
10.COPPER.....P	10
11.IRON.....P	21489
12.LEAD.....F	2.9
13.MAGNESIUM...P	4523
14.MANGANESE...P	313
15.MERCURY....CV	0.1U
16.NICKEL.....P	8U
17.POTASSIUM...P	1888
18.SELENIUM....F	1.8U J
19.SILVER.....P	2.6
20.SODIUM.....P	591
21.THALLIUM....F	2U
22.TIN.....P	9U
23.VANADIUM....P	41.8
24.ZINC.....P	40
25.CYANIDE.....C	N/R
% SOLID	95

COMMENTS:

LAB MANAGER: TWC

RMM
9/24/85